Peak Demand in Mega Watt (MW)

	July, 2007	April, 2007-July, 2007
Peak Demand	15127	18441
Peak Met	11242	12837
Shortage	3885	5604
Percentage	25.7	30.4

Power situation

844. DR. V. MAITREYAN: Will the Minister of POWER be pleased to state:

(a) the total demand of power in the country, State-wise;

(b) the total generation of power from Thermal, Hydro and Nuclear sources in the country, State-wise;

(c) the total generation of power by the private sector;

(d) the number of power projects which are in the pipeline in both the private and public sector, State-wise; and

(e) by when the demand and supply position of power would stabilize in the country?

THE MINISTER OF POWER (SHRI SUSHILKUMAR SHINDE): (a) The State-wise details of energy requirement and peak demand in the country during July, 2007 are given at Statement-I (*See* below).

(b) The State-wise details of generation of power in the Thermal, Hydro and Nuclear sources, during the current year (April-July'07) are given at Statement-II (*See* below).

(c) The total generation of power by the private sector (Utilities & IPPs) in the country during April-July, 2007 was around 21.4 Billion Units.

(d) Capacity addition of 78,577 MW comprising 39,865 MW in central sector, 27,952 MW in state sector and 10,760 MW in private sector has been envisaged during Eleventh Plan. Out of this, projects aggregating 50,910 MW are already under construction. Sector-wise list of the projects which are under construction and are envisaged to be completed during the Eleventh Plan is enclosed as Statement-III (*See* below).

(e) With the proposed capacity addition of 78,577 MW during the Eleventh Plan, the gap between demand and supply of power in the country as a whole is likely to be bridged.

Statement-I

State-wise Energy Requirement and Peak Demand during July, 2007

State/ Region	Energy Requirement (MU)	Peak Demand (MW)
1	2	3
Chandigarh	144	264
Delhi	2,329	3,909
Haryana	2,953	5,000
Himachal Pradesh	511	874
Jammu & Kashmir	712	1,377
Punjab	4,908	8,000
Rajasthan	2,593	4,088
Uttar Pradesh	5,334	9,000
Uttaranchal	596	1,054
Northern Region	20,080	32,072
Chhattisgarh	1,164	2,064
Gujarat	4,457	9,642
Madhya Pradesh	2,428	4,172
Maharashtra	8,247	15,127
Daman & Diu	139	218
D.N. Haveli	260	433
Goa	222	404
Western Region	16,917	30,397
Andhra Pradesh	5,259	8,410
Karnataka	3,058	4,850
Kerala	1,203	2,556
Tamil Nadu	5,634	8,716
Pondicherry	161	245
Lakshadweep #	2	6
Southern Region	15,315	24,083
Bihar	734	1,493

1	2	3
DVC	1,092	1,733
Jharkhand	386	660
Orissa	1,612	2,725
West Bengal	2,463	4,763
Sikkim	21	45
Andaman-Nicobar #	20	40
Eastern Region	6,308	10,874
Arunachal Pradesh	28	78
Assam	445	799
Manipur	50	100
Meghalaya	154	388
Mizoram	24	60
Nagaland	29	82
Tripura	68	142
North-Eastern Region	798	1,589
ALL INDIA:	59,418	99,015

MU - Million Units
MW - Mega Watt
Sources: CEA

Statement-II

State wise Power Generation from Thermal, Hydro and Nuclear Stns. during April'07 to July'07

Region/ State	Type	Sector	April to July, 07	
			Target (MU)	Actual Generation (MU)
1	2	3	4	5
Northern Region				
Delhi	Thermal	State	1857	1877.44
Haryana	Thermal	State	3269	3412.3
	Hydro		98	101.44
	Total		**3367**	**3513.74**

1	2	3	4	5
Himachal Pradesh	Hydro	State	863	800.64
		Private	717	824.09
	Total		**1580**	**1624.73**
Jammu & Kashmir	Thermal	State	0	0
	Hydro	State	527	413.58
	Total		**527**	**413.58**
Punjab	Thermal	State	5116	5486.25
	Hydro	State	1670	2078.74
	Total		**6786**	**7564.99**
Rajasthan	Thermal	State	5682	5584.49
	Hydro	State	150	382.46
	Total		**5832**	**5966.95**
Uttar Pradesh	Thermal	State	7912	7270.72
	Hydro	State	352	367.73
	Total		**8264**	**7638.45**
Uttarakhand	Hydro	State	1313	1326.5
		Private	815	924.29
	Total		**2128**	**2250.79**
Central	Thermal		23319	23906.24
	Nuclear		1527	1185.17
	Hydro		13647	15631.43
Northern Region	**Total**		**68834**	**71573.51**
Western Region				
Chhattisgarh	Thermal	State	2835	3002.3
	Hydro	State	90	87.96
	Total		**2925**	**3090.26**
Goa	Thermal	Private	114	108.42
Gujarat	Thermal	State	10099	9455.45
		Private	4437	4763.75
	Hydro	State	1287	1692.18
	Total		**15823**	**15911.38**
Madhya Pradesh	Thermal	State	4919	4340.77
	Hydro	State	262	875.76
		Private	10	0
	Total		**5191**	**5216.53**

1	2	3	4	5
Maharashtra	Thermal	State	16665	15326.39
		Private	4877	4858.76
	Hydro	State	1342	1605.56
		Private	610	752.16
	Total		**23494**	**22542.87**
Central	Thermal		16698	17708.65
	Nuclear		3512	3519.82
	Hydro		963	858.57
Western Region	**Total**		**68720**	**68956.5**
Southern Region				
Andhra Pradesh	Thermal	State	9147	7966.52
		Private	1670	2089.99
	Hydro	State	1505	2502.37
	Total		**12322**	**12558.88**
Karnataka	Thermal	State	3965	3660.5
		Private	406	609.24
	Hydro	State	4510	4110.1
		Private	29	8.37
	Total		**8910**	**8388.21**
Kerala	Thermal	State	29	113.22
		Private	21	170.2
	Hydro	State	2376	2342
		Private	30	30.15
	Total		**2456**	**2655.57**
Lakshadweep	Thermal	State	8	9.62
Pondicherry	Thermal	State	86	94.55
Tamil Nadu	Thermal	State	8108	7846.79
		Private	2166	2425.81
	Hydro	State	1361	1591.78
	Total		**11635**	**11864.38**
Central	Thermal		15197	16605.62
	Nuclear		1895	1640.4
Southern Region	**Total**		**52509**	**53817.23**

1	2	3	4	5
Eastern Region				
A & N Islands	Thermal	State	20	31.64
		Private	32	32.19
	Hydro	State	4	2.07
	Total		**56**	**65.9**
Bihar	Thermal	State	236	0
	Hydro	State	20	11.44
	Total		**256**	**11.44**
Jharkhand	Thermal	State	1122	949.2
		Private	822	737.83
	Hydro	State	22	28.66
	Total		**1966**	**1715.69**
Orissa	Thermal	State	1066	911.33
		Private	230	214.4
	Hydro	State	1663	2345.48
	Total		**2959**	**3471.21**
Sikkim	Thermal	State	0	0.02
	Hydro	State	15	14.09
	Total		**15**	**14.11**
West Bengal	Thermal	State	5686	5891.76
	Private		2662	2839.42
	Hydro	State	127	136.93
	Total		**8475**	**8868.11**
Central	Thermal		19676	20647.66
	Hydro		199	249.74
Eastern Region	**Total**		**33602**	**35043.86**
North Eastern Region				
Arunachal Pradesh	Hydro	State	7	1.32
Assam	Thermal	State	437	297.06
		Private	58	32.83
	Hydro	State	131	114.62
	Total		**626**	**444.51**
Manipur	Thermal	State	2	0
Meghalaya	Hydro	State	196	164.56

1	2	3	4	5
Mizoram	Thermal	State	0	1.28
Nagaland	Hydro	State	46	32.43
Tripura	Thermal	State	161	186.13
	Hydro	State	17	11.12
	Total		**178**	**197.25**
Central	Thermal		736	774.71
	Hydro		1357	1303.31
North Eastern Region Total			**3148**	**2919.37**
Bhutan Import	Hydro		3321	1897.51
Thermal			**181548**	**182241.45**
Nuclear			**6934**	**6345.39**
Hydro			**41652**	**45621.14**
All India (Including Bhutan Import)			**230134**	**234207.98**

Sources: CEA

Statement-III

Details of Thermal Projects under execution (as on 15.08.07):

Sl. No.	Name of Scheme/ Executing Agency	Sector	I.C. (No. x MW)= Capacity	Capacity Under Exec. (MW)	Likely Commng.
1	2	3	4	5	6
	Andhra Pradesh				
1	Simhadri STPP Extn./ NTPC	Central	2x500 = 1000	1000	2010-11
2	Kakatiya TPP APGENCO	State	lx500 = 500	500	2009-10
3	Kothagudem TPP Extn. APGENCO	State	1x500 = 500	500	2009-10
4	Rayalaseema-II (2X210) APGENCO	State	2x210 = 420	210	2007-08
5	Vijayawada TPP-IV APGENCO	State	lx500 = 500	500	2,008-09
6	Gautami CCPP Gautami Power Ltd	Private	2x145+1x 174=464	464	2008-09

1	2	3	4	5	6
7	Konaseema CCPP Konaseema EPS	Private	2x140+1x 165=445	445	2008-09
	Assam				
8	Lakwa Waste Heat Unit APGCL	State	ST-37.2	37.2	2008-09
	Bihar				
9	Barh STPP- I NTPC	Central	3x660 = 1980	1980	2008-10
10	Kahalgaon St-II, Ph-I U-6 (2X500) NTPC	Central	2x500 = 500	500	2007-08
11	Kahalgaon St-II, Ph-2 U-7 NTPC	Central	lx500 = 500	500	2007-08
	Chhattisgarh				
12	Bhilai TPP Ph-I NTPC	Central	2x250 = 500	500	2007-08
13	Korba STPP NTPC	Central	lx500 = 500	500	2009-10
14	Sipat-2 NTPC	Central	2x500 = 1000	500	2007-08
15	Sipat-I NTPC	Central	3x660 = 1980	1980	2007-09
16	Korba East TPP St-5 CSEB	State	2x250 = 500	250	2007-08
17	O.P. Jindal STPP Jindal Power Ltd.	Private	4x250 = 1000	1000	2007-08
18	Pathadi TPS Ph-1 Lanco Amarkantak Power Pvt. Ltd.	Private	lx300 = 300	300	2008-09
19	Pathadi TPS Ph- I Lanco Amarkantak Power Pvt. Ltd	Private	1x300 = 300	300	2009-10
	Gujarat				
20	Dhuvaran CCPP Extn. GSECL	State	72+40 = 112	40	2007-08
21	Kutch Lignite TPS Extn/GSPCL	State	lx75 = 75	75	2007-08

1	2	3	4	5	6
22	Surat Lignite TPP Extn. GIPCL	State	2xl25 = 250	250	2008-09
23	Sikka TPP Extn. GSECL	State	2x250 = 500	500	2009-11
24	Utran CCPP Extn. GSECL	State	lx350 = 350	350	2009-10
25	Sugen CCPP(Akhakhol) Torrent Power Gen. Ltd.	Private	3x376 = 1128	1128	2007-08
	Haryana				
26	Aravali STPS/ Aravali Power Co. Pvt. Ltd (JV of NTPC, IPGCL & HPGCL)	Central	3x500 = 1500	1500	2010-11
27	Rajiv Gandhi (Hissar) TPS HPGCL	State	2x600 = 1200	1200	2009-10
28	Yamuna Nagar TPP HPGCL	State	2x300 = 600	600	2008-09
	Jharkhand				
29	Chandrapura TPS Extn./ DVC	Central	2x250 = 500	500	2007-08
30	Kodarma TPP DVC	Central	2x500 = 1000	1000	2010-11
	Karnataka				
31	Bellary St-I KPCL	State	lx500 = 500	500	2007-08
32	Bellary TPP St-II KPCL	State	1 x500 = 500	500	2010-11
33	Raichur U-8 KPCL	State	lx250 = 250	250	2009-10
34	ToranagaIlu TPP/ JSW Energy (Vijayanagar) Ltd	Private	2x300 = 600	600	2009-10
	Maharashtra				
35	Ratnagiri JV Ph-II, Dhabol RGPPL Block-3	Central	lx740 = 740	740	2007-08

1	2	3	4	5	6
36	Bhusawal Extn. MSPGCL	State	2x500 = 1000	1000	2010-11
37	Khaperkheda Extn. MSPGCL	State	1 x500 = 500	500	2009-10
38	New Parli Extn. U-2 MSPGCL St-II	State	1 x250 = 250	250	2009-10
39	Paras TPS Extn. MSPGCL	State	lx250 = 250	250	2009-10
40	Trombay TPS Extn. Tata Power Company	Private	1 x250 = 250	250	2008-09
	Madhya Pradesh				
41	Amarkantak TPS Extension MPPGCL	State	lx210 = 250	210	2007-08
	Nagaland				
42	Dimapur HFO based DGPP Deptt of Power, Govt of Nagaland	State	5x22.73 = 23	23	2009-10
	Punjab				
43	Guru Har Govind TPS-II PSEB	State	2x250 = 500	500	2007-08
	Rajasthan				
44	Barsingsar Lignite/ NLC	Central	2x 125 =250	250	2008-09
45	Chhabra TPS RRVUNL	State	2x250 = 500	500	2008-09
46	Dholpur CCGT RRVUNL	State	2x 110+ 1 x 110 = 330	110	2007-08
47	Giral Lignite-II RRVUNL	State	lxl25=125	125	2008-09
48	Kota TPP RRVUNL	State	lxl95 = 195	195	2008-09
49	SuraTurbo Generatorarh TPP RRVUNL	State	1 x250 = 250	250	2008-09

1	2	3	4	5	6
	Tamil Nadu				
50	Neyveli TPS-II NLC Exp. NLC	Central	2x250 = 500	500	2008-09
51	Valuthur CCPP Extn. TNEB	State	Ix59.8+ Ix32.4 = 92.2	92.2	2007-08
	U.P.				
52	National Capital Power Project St-II, U-5 NTPC	Central	Ix490 = 490	490	2009-10
53	National Capital Power Project, St-II, U-6 NTPC	Central	Ix490 = 490	490	2009-10
54	Harduaganj Ext UPRVUNL	State	2x250 = 500	500	2009-10
55	Pariichha Extn UPRVUNL	State	2x250 = 500	500	2009-10
	West Bengal				
56	Durgapur Steel TPP DVC	Central	2x500 = 1000	1000	2010-12
57.	Farakka STPS Stage-III NTPC	Central	Ix 500	500	2010-11
58	Mejia Extn U-7 & 8 DVC	Central	2x500 = 1000	1000	2009-10
59	Mejia TPS U-6 DVC	Central	1x250 = 250	250	2007-08
60	Bakreshwar TPS/WBPDCL	State	2x210 = 420	420	2007-08
61	Durgapur TPS Extn DPL	State	1x300 = 300	300	2007-08
62	Sagardighi TPP WBPDCL	State	2x300 = 600	600	2007-08
63	Santaldih TPP Extn Ph2 WBPDCL	State	Ix250 = 250	250	2009-10
64	SantaldihTPP Extn. Ph-I WBPDCL	State	Ix250 = 250	250	2007-08

1	2	3	4	5	6
65	Budge-Budge III CESC	Private	1x250 = 250	250	2009-10

B. Hydro Projects under Execution (As on 15.08.07) :

Sl. No.	Name of Scheme/ Executing Agency	Sector	I.C. (No. x MW)= Capacity	Capacity Under Exec. (MW)	Likely Commng.
1	2	3	4	5	6
	Himachal Pradesh				
1	Parbati St. II/ NHPC	Central	4x200= 800 MW	800.00	2011-12
2	Chamera-III/ NHPC	Central	3x77= 231 MW	231.00	2010-11
3	Parabati-III/ NHPC	Central	4x130 = 520 MW	520.00	2010-11
4	Kol Dam/ NTPC	Central	4x200 = 800 MW	800.00	2009-10
5	Rampur/ SJVNL	Central	6x68.67 = 412 MW	412.00	2011-12
6	Uhl-III/ Beas Valley Power Corpn. Ltd (BVPC)	State	3x33.33 = 100MW	100.00	2010-11
7	Swara Kuddu/ Pabbar Valley Corpn. (PVC)	State	3x36.6 = 110MW	110.00	2011-12
8	Allain Duhangan/ ADHPL	Private	2x96 = 192 MW	192.00	2008-09
9	Karcham Wangtoo/ JPKPL	Private	4x250 = 1000 MW	1000.00	2011-12
10	Budhil/ LANCO	Private	2x35 = 70MW	70.00	2009-10
11	Malana-II/ Everest PC	Private	2x50 = 100 MW	100.00	2009-10
	Jammu & Kashmir				
12	Uri-II/ NHPC	Central	4x60 = 240 MW	240.00	2009-10

1	2	3	4	5	6
13	Sewa - II/ NHPC	Central	3x40 = 120MW	120.00	2009-10
14	Baglihar-I/ JKSPDC	State	3x150 = 450 MW	450.00	2008-09
	Uttarakhand				
15	Koteshwar/ THDC	Central	4x100 = 400 MW	400.00	2010-11
16	Loharinagpala/ NTPC	Central	4x 150 = 600 MW	600.00	2011-12
17	Tapovan Vishnugad/ NTPC	Central	4x 130 = 520 MW	520.00	2011-12
18	Maneri Bhali-II/ UJVNL	State	4x76 = 304 MW	304.00	2007-08
19	Shrinagar/ M/s GVK Industries	Private	4x82.5 = 330 MW	330.00	2011-12
	Madhya Pradesh				
20	Omkareshwar/ NHDC	Central	8x65 = 520 MW	390.00	2007-08
21	Maheshwar/ SMHPCL	Private	10x40 = 400 MW	400.00	2011-12
	Maharashtra				
22	Ghatghar PSS/ GOMID	State	2x125 = 250 MW	250.00	2007-08
	Andhra Pradesh				
23	Priyadarshni Jurala/ APGENCO	State	6x39.1 = 234 MW	234.00	2007-09
24	Nagarjuana Sagar TR/ APGENCO	State	2x25 = 50MW	50.00	2009-10
	Kerala				
25	Kuttiyadi Addl. Ext./ KSEB	State	2x50 = 100MW	100.00	2008-09
26	Pallivasal/ KSEB	State	3x20 = 60MW	60.00	2010-11
27	Athirapalli/ KSEB	State	2x80 + 2x1.5 = 163 MW	163.00	2011-12

1	2	3	4	5	6
	Karnataka				
28	Varahi Extn./ KPCL	State	2xl15 = 230 MW	230.00	2008-09
	Tamil Nadu				
29	Bhawani Barrage II/ TNEB	State	2x15 = 30MW	30.00	2010-11
30	Bhawani Barrage III/ TNEB	State	2x15 = 30MW	30.00	2009-10
	West Bengal				
31	Teesta Low Dam-III/ NHPC	Central	4x33 = 132 MW	132.00	2009-10
32	Teesta Low Dam-IV/ NHPC	Central	4x40 = 160 MW	160.00	2010-11
33	Purulia PSS/ WBSEB	State	4x225 = 900 MW	675.00	2007-08
	Orissa				
34	Balimela Extn./ OHPC	State	2x75 = 150 MW	150.00	2007-08
	Sikkim				
35	Teesta S1. V/ NHPC	Central	3xl70 = 510MW	510.00	2007-08
36	Chujachen * (*Financial closure yet to achieved)/ M/s Gati	Private	2x49.5 = 99MW	99.00	2009-10
37	Teesta St. III/ Teesta Urja Ltd.	Private	6x200 = 1200 MW	600.00 in 11th Plan	2011-13
	Meghalaya				
38	Myntdu/ MeSEB	State	2x42 = 84MW	84.00	2009-10
	Arunachal Pradesh				
39	Subansiri Lower/ NHPC	Central	8x250 = 2000 MW	2000.00	2011-12
40	Kameng/ NEEPCO	Central	4x 150 = 600 MW	600.00	2010-11

C. Nuclear Projects under Execution (As on 15.08.07) :

Sl. No.	Name of Scheme/ Executing Agency	Sector	I.C. (No. x MW)= Capacity	Capacity Under Exec. (MW)	Likely Commng.
	Rajasthan				
1.	Rajasthan Atomic Power Project NPCL	Central	2x220 = 440 MW	440	U#5-2007 U#6 -2008
	Tamil Nadu				
2.	Kudankulam Nuclear Power Project/ NPCL	Central	2x 1000 = 2000 MW	2000	U#1 - 2008 U#2 - 2009
3.	Prototype Fast Breeder Reactor (PFBR)/NPCL	Central	1x500 = 500 MW	500	2011
	Karnataka				
4.	Kaiga Atomic Power Project/NPCL	Central	2x220 = 440 MW	220	U# 4 - 2008

* for both units

Tala transmission system

845. SHRI RAMDAS AGARWAL: Will the Minister of POWER be pleased to state:

(a) whether the Tala Transmission System a joint venture between the Power Grid Corporation of India Limited and Power Links Transmission Limited, the first Public-Private Partnership in Power Sector, was recently inaugurated by Prime Minister in North East;

(b) if so, the details of enhanced National Grid capacity with improved security, stability and reliability;

(c) the likely cost of this first capacity link; and

(d) the time-frame with in which this economic exchange of power would lead to recovery of the entire cost of the project?

THE MINISTER OF POWER (SHRI SUSHILKUMAR SHINDE): (a) The Prime Minister of India dedicated the "East-North Tala Transmission System" to the Nation on 20.06.2007.

(b) With the commissioning of the above transmission system, the capacity of the National Grid (inter-regional power transfer capacity) has been enhanced by 2000 MW. The present aggregate capacity is 14600 MW.